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NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS	3	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS	4	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS	5	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS	6	JAN 22	CA/CAplus updated with revised CAS roles
NEWS	7	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS	8	JAN 29	PHAR reloaded with new search and display fields
NEWS	9	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS	10	FEB 15	PATDPASPC enhanced with Drug Approval numbers
NEWS	11	FEB 15	RUSSIAPAT enhanced with pre-1994 records
NEWS	12	FEB 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS	13	FEB 26	MEDLINE reloaded with enhancements
NEWS	14	FEB 26	EMBASE enhanced with Clinical Trial Number field
NEWS	15	FEB 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS	16	FEB 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS	17	FEB 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS	18	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS	19	MAR 16	CASREACT coverage extended
NEWS	20	MAR 20	MARPAT now updated daily
NEWS	21	MAR 22	LWPI reloaded
NEWS	22	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS	23	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS	24	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS	25	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS	26	APR 30	CA/CAplus enhanced with 1870-1889 U.S. patent records
NEWS	27	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS	28	MAY 01	New CAS web site launched
NEWS	29	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS	30	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS	31	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS	32	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS	33	MAY 21	CA/CAplus enhanced with additional kind codes for German patents
NEWS	34	MAY 22	CA/CAplus enhanced with IPC reclassification in Japanese patents

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

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Enter NEWS followed by the item number or name to see news on that
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FILE 'HOME' ENTERED AT 15:51:36 ON 15 JUN 2007

=> file medline, biosis
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.21       0.21

FILE 'MEDLINE' ENTERED AT 15:51:56 ON 15 JUN 2007

FILE 'BIOSIS' ENTERED AT 15:51:56 ON 15 JUN 2007
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=> (triacylglycerol production)
(TRIACYLGLYCEROL IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s (triacylyglycerol production)
L1            0 (TRIACYLYGLYCEROL PRODUCTION)

=> s (triacylglycerol) and production
L2         1133 (TRIACYLGLYCEROL) AND PRODUCTION

=> s l2 and increase (oil content)
MISSING OPERATOR 'INCREASE (OIL'
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> s l2 and (increase oil content)
L3            0 L2 AND (INCREASE OIL CONTENT)

=> s l2 and ( enzyme)
L4          175 L2 AND (ENZYME)

=>  s l4 and (catalyze an acyl-CoA independent reaction)
L5            0 L4 AND (CATALYZE AN ACYL-COA INDEPENDENT REACTION)

=> s l4 and (S. cerevisiae)
L6            4 L4 AND (S. CEREVISIAE)

=> d l6 ti abs ibib tot

L6   ANSWER 1 OF 4     MEDLINE on STN
TI   Synthesis of novel lipids in Saccharomyces cerevisiae by heterologous
     expression of an unspecific bacterial acyltransferase.
AB   The bifunctional wax ester synthase/acyl-coenzyme A:diacylglycerol
     acyltransferase (WS/DGAT) is the key enzyme in storage lipid
     accumulation in the gram-negative bacterium Acinetobacter calcoaceticus
     ADP1, mediating wax ester, and to a lesser extent, triacylglycerol
     (TAG) biosynthesis.  Saccharomyces cerevisiae accumulates TAGs and steryl
     esters as storage lipids.  Four genes encoding a DGAT (Dga1p), a
     phospholipid:diacylglycerol acyltransferase (Lro1p) and two acyl-coenzyme
```

A:sterol acyltransferases (ASATs) (Are1p and Are2p) are involved in the final esterification steps in TAG and steryl ester biosynthesis in this yeast. In the quadruple mutant strain S. cerevisiae H1246, the disruption of DGA1, LRO1, ARE1, and ARE2 leads to an inability to synthesize storage lipids. Heterologous expression of WS/DGAT from A. calcoaceticus ADP1 in S. cerevisiae H1246 restored TAG but not steryl ester biosynthesis, although high levels of ASAT activity could be demonstrated for WS/DGAT expressed in Escherichia coli XL1-Blue in radiometric in vitro assays with cholesterol and ergosterol as substrates. In addition to TAG synthesis, heterologous expression of WS/DGAT in S. cerevisiae H1246 resulted also in the accumulation of fatty acid ethyl esters as well as fatty acid isoamyl esters. In vitro studies confirmed that WS/DGAT is capable of utilizing a broad range of alcohols as substrates comprising long-chain fatty alcohols like hexadecanol as well as short-chain alcohols like ethanol or isoamyl alcohol. This study demonstrated the highly unspecific acyltransferase activity of WS/DGAT from A. calcoaceticus ADP1, indicating the broad biocatalytic potential of this enzyme for biotechnological production of a large variety of lipids in vivo in prokaryotic as well as eukaryotic expression hosts.

ACCESSION NUMBER: 2004600773 MEDLINE
DOCUMENT NUMBER: PubMed ID: 15574908
TITLE: Synthesis of novel lipids in Saccharomyces cerevisiae by heterologous expression of an unspecific bacterial acyltransferase.
AUTHOR: Kalscheuer Rainer; Luftmann Heinrich; Steinbuchel Alexander
CORPORATE SOURCE: Institut fur Molekulare Mikrobiologie und Biotechnologie, Westfalische Wilhelms-Universitat, Munster, Germany.
SOURCE: Applied and environmental microbiology, (2004 Dec) Vol. 70, No. 12, pp. 7119-25.
Journal code: 7605801. ISSN: 0099-2240.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200502
ENTRY DATE: Entered STN: 3 Dec 2004
Last Updated on STN: 16 Feb 2005
Entered Medline: 15 Feb 2005

L6 ANSWER 2 OF 4 MEDLINE on STN
TI Effect of hypertension on lipid metabolism and beta-oxidation in rat aorta and brain microvessels.
AB The effects of hypertension on various enzyme activities involved in lipid metabolism and beta-oxidation in rat brain microvessels and aorta were studied. The purity of the brain microvessel preparation was confirmed immunologically and microscopically. Activities involved in lipid synthesis, such as triacylglycerol synthesizing activity, acyl-CoA synthesizing activity, acyl-CoA: cholesterol acyltransferase and cytidine diphosphate choline:1,2-diacylglycerol cholinephosphotransferase, were significantly higher in brain microvessels than in aorta in both normotensive and hypertensive rats; lipid hydrolyzing activities, such as lipases and cholesterol esterases, were similar in the two preparations. beta-oxidation in brain microvessels was more active than in aorta in both groups. Hypertension did not alter these enzyme activities in either aorta or brain microvessels, or change beta-oxidation in the aorta. However beta-oxidation in brain microvessels was significantly lower in hypertensive rats than in normotensive rats. These results suggest that brain microvessels are metabolically more active than aorta, and that their beta-oxidation activity is more susceptible to effects of hypertension. Reduced beta-oxidation in brain microvessels might lead to angionecrosis by derangement of energy production, which in turn may cause cerebral bleeding.

ACCESSION NUMBER: 83203441 MEDLINE

DOCUMENT NUMBER: PubMed ID: 6303275
TITLE: Effect of hypertension on lipid metabolism and beta-oxidation in rat aorta and brain microvessels.
AUTHOR: Sasaki N; Morisaki N; Shinomiya M; Matsuoka N; Saito Y; Wakashin M; Ueda S; Kumagai A
SOURCE: Artery, (1982) Vol. 11, No. 2, pp. 108-18. Journal code: 7508494. ISSN: 0098-6127.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198306
ENTRY DATE: Entered STN: 18 Mar 1990
Last Updated on STN: 6 Feb 1998
Entered Medline: 23 Jun 1983

L6 ANSWER 3 OF 4 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
TI Synthesis of novel lipids in Saccharomyces cerevisiae by heterologous expression of an unspecific bacterial acyltransferase.
AB The bifunctional wax ester synthase/acyl-coenzyme A:diacylglycerol acyltransferase (WS/DGAT) is the key enzyme in storage lipid accumulation in the gram-negative bacterium Acinetobacter calcoaceticus ADP1, mediating wax ester, and to a lesser extent, triacylglycerol (TAG) biosynthesis. Saccharomyces cerevisiae accumulates TAGs and steryl esters as storage lipids. Four genes encoding a DGAT (Dga1p), a phospholipid:diacylglycerol acyltransferase (Lro1p) and two acyl-coenzyme A:sterol acyltransferases (ASATs) (Are1p and Are2p) are involved in the final esterification steps in TAG and steryl ester biosynthesis in this yeast. In the quadruple mutant strain S. cerevisiae H1246, the disruption of DGA1, LRO1, ARE1, and ARE2 leads to an inability to synthesize storage lipids. Heterologous expression of WS/DGAT from A. calcoaceticus ADP1 in S. cerevisiae H1246 restored TAG but not steryl ester biosynthesis, although high levels of ASAT activity could be demonstrated for WS/DGAT expressed in Escherichia coli XL1-Blue in radiometric in vitro assays with cholesterol and ergosterol as substrates. In addition to TAG synthesis, heterologous expression of WS/DGAT in S. cerevisiae H1246 resulted also in the accumulation of fatty acid ethyl esters as well as fatty acid isoamyl esters. In vitro studies confirmed that WS/DGAT is capable of utilizing a broad range of alcohols as substrates comprising long-chain fatty alcohols like hexadecanol as well as short-chain alcohols like ethanol or isoamyl alcohol. This study demonstrated the highly unspecific acyltransferase activity of WS/DGAT from A. calcoaceticus ADP1, indicating the broad biocatalytic potential of this enzyme for biotechnological production of a large variety of lipids in vivo in prokaryotic as well as eukaryotic expression hosts.
ACCESSION NUMBER: 2005:119076 BIOSIS
DOCUMENT NUMBER: PREV200500117462
TITLE: Synthesis of novel lipids in Saccharomyces cerevisiae by heterologous expression of an unspecific bacterial acyltransferase.
AUTHOR(S): Kalscheuer, Rainer; Luftmann, Heinrich; Steinbuechel, Alexander [Reprint Author]
CORPORATE SOURCE: Inst Mol Mikrobiol and Biotechnol, Univ Munster, Corrensstr 3, D-48149, Munster, Germany
steinbu@uni-muenster.de
SOURCE: Applied and Environmental Microbiology, (December 2004) Vol. 70, No. 12, pp. 7119-7125. print.
ISSN: 0099-2240 (ISSN print).
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 23 Mar 2005
Last Updated on STN: 23 Mar 2005

L6 ANSWER 4 OF 4 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

TI Expression of Rhizopus oryzae lipase gene in Saccharomyces cerevisiae.

AB The extracellular production of active Rhizopus oryzae lipase (ROL) was carried out by the expression of the ProROL gene encoding a pro-form of ROL (ProROL) using prepro-alpha-factor in Saccharomyces cerevisiae. Two forms of recombinant ROL (rROL), rProROL by the expression of the ProROL gene and r28ROL which was a processed form of rProROL in the prosequence, were produced. Such a processing of rROL was catalyzed by the Kex2 membrane-bound endoprotease (Kex2p) in the late Golgi compartment. The ProROL and r28ROL could be produced independently as a single protein by the Kex2-engineered S. cerevisiae . Comparison of the properties of purified rROL showed that the prosequence modified some properties of ROL, and implied that the prosequence might play an physiologically important role in vivo. When only mature ROL (mROL) without the prosequence fused to the pre-alpha-factor leader sequence was expressed in S. cerevisiae, the enzyme activity was not observed in both the medium and cells. However, when the mROL was co-expressed in trans with the prosequence fused to the pre-alpha-factor leader sequence, the activity was recovered. The results showed that the prosequence may facilitate the folding of mROL, and the covalent linkage of the prosequence to the mROL was not necessary for the function. As the result of the deletion analysis at the N-terminus in the prosequence, the prosequence might work as an intramolecular chaperone. By the cell surface engineering using the gene encoding the C-terminal half of yeast alpha-agglutinin and the insertion of linker peptides, a novel strain displaying lipase on the cell surface was also constructed. Although S. cerevisiae itself is unable to utilize triolein, the transformant strain could grow on triolein as the sole carbon source. The cell surface-engineered yeast displaying ROL might be used as a potent bioctalyst.

ACCESSION NUMBER: 2002:401114 BIOSIS
DOCUMENT NUMBER: PREV200200401114
TITLE: Expression of Rhizopus oryzae lipase gene in Saccharomyces cerevisiae.
AUTHOR(S): Ueda, Mitsuyoshi [Reprint author]; Takahashi, Shouji; Washida, Motohisa; Shiraga, Seizaburo; Tanaka, Atsuo
CORPORATE SOURCE: Laboratory of Applied Biological Chemistry, Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University, Sakyo-ku, Kyoto, 606-8501, Japan
miueda@sbchem.kyoto-u.ac.jp
SOURCE: Journal of Molecular Catalysis B Enzymatic, (7 June, 2002) Vol. 17, No. 3-5, pp. 113-124. print.
ISSN: 1381-1177.
DOCUMENT TYPE: Article
General Review; (Literature Review)
LANGUAGE: English
ENTRY DATE: Entered STN: 24 Jul 2002
Last Updated on STN: 29 Aug 2002

=> d his

(FILE 'HOME' ENTERED AT 15:51:36 ON 15 JUN 2007)

FILE 'MEDLINE, BIOSIS' ENTERED AT 15:51:56 ON 15 JUN 2007

L1 0 S (TRIACYLYGLYCEROL PRODUCTION)
L2 1133 S (TRIACYLGLYCEROL) AND PRODUCTION
L3 0 S L2 AND (INCREASE OIL CONTENT)
L4 175 S L2 AND (ENZYME)
L5 0 S L4 AND (CATALYZE AN ACYL-COA INDEPENDENT REACTION)
L6 4 S L4 AND (S. CEREVISIAE)

```
=> s l2 and (DNA)
L7           52 L2 AND (DNA)

=> s l7 and l6
L8            0 L7 AND L6
```

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L2	(triacylglycerol production)	841118	L2
L1	dahlqvist.in.	23	L1

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☐ 1. Document ID: US 6791008 B1

L3: Entry 1 of 5 File: USPT Sep 14, 2004

US-PAT-NO: 6791008
DOCUMENT-IDENTIFIER: US 6791008 B1

TITLE: Use of a class of enzymes and their encoding genes to increase the oil content in transgenic organisms

DATE-ISSUED: September 14, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Banas; Antoni	Siedlce			PL
Sandager; Line	Copenhagen			DK
St.ang.hl; Ulf	Uppsala			SE
Dahlqvist; Anders	Furulund			SE
Lenman; Marit	Lund			SE
Ronne; Hans	Uppsala			SE
Stymne; Sten	Svalov			SE

US-CL-CURRENT: 800/281; 435/224, 435/471, 435/483, 536/23.1, 536/23.2, 536/23.7, 800/278, 800/298, 800/306

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 2. Document ID: US 6524900 B2

L3: Entry 2 of 5 File: USPT Feb 25, 2003

US-PAT-NO: 6524900
DOCUMENT-IDENTIFIER: US 6524900 B2

TITLE: Method concerning a junction barrier Schottky diode, such a diode and use thereof

DATE-ISSUED: February 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dahlqvist; Fanny	Johanneshov			SE

Lendenmann; Heinz	Stocksund	SE
Hermansson; Willy	Vaster.ang.s	SE

US-CL-CURRENT: 438/167; 257/E21.359, 257/E27.051, 257/E29.104, 257/E29.338, 438/237, 438/328, 438/431

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 3. Document ID: US 6333448 B1

L3: Entry 3 of 5 File: USPT Dec 25, 2001

US-PAT-NO: 6333448
DOCUMENT-IDENTIFIER: US 6333448 B1

TITLE: Plant enzyme and use thereof

DATE-ISSUED: December 25, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bafor; Maureen	Benin City			NG
Banas; Antoni	08-110 Siedlce			PL
Dahlqvist; Anders	S-244 66 Furuland			SE
Gummeson; Per-Olov	S-227 38 Lund			SE
Lee; Michael	S-231 97 Klagstorp			SE
Sjodal; Staffan	S-756 50 Uppsala			SE
Stymne; Sten	S-268 90 Svalov			SE
Lenman; Marit	S-22359 Lund			SE

US-CL-CURRENT: 800/295; 435/254.1, 435/255.1, 435/419, 435/69.1, 536/23.6, 800/281

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 4. Document ID: US 6306357 B1

L3: Entry 4 of 5 File: USPT Oct 23, 2001

US-PAT-NO: 6306357
DOCUMENT-IDENTIFIER: US 6306357 B1
**** See image for Certificate of Correction ****

TITLE: Process and apparatus for absorbing hydrogen sulphide

DATE-ISSUED: October 23, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Simonson; Erik	Vaxjo			SE

Wallin; Mats	Lund	SE
Bengtsson; Sune	Vaxjo	SE
Dahlqvist; Erik	Vaster.ang.s	SE

US-CL-CURRENT: 423/232; 162/51, 422/169, 422/170, 422/171, 422/181, 423/220

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 5. Document ID: US PP08319 P

L3: Entry 5 of 5 File: USPT Jul 27, 1993

US-PAT-NO: PP08319
DOCUMENT-IDENTIFIER: US PP08319 P

TITLE: Poinsettia plant `Lilo White`

DATE-ISSUED: July 27, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dahlqvist; Kjell-Ingvar	Hollviken			SE

US-CL-CURRENT: PLT/304

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

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